

Appl. No. 10/071,143

RECEIVED
CENTRAL FAX CENTER
JUL 17 2006

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in this application:

Listing of the Claims:

1 - 4. (cancelled)

5. (currently amended) A method for producing a synthetic dental restorative part such as a full or partial dental prosthesis, comprising:

providing a base;

spray applying with a spray device a material having at least a polymerizable synthetic material onto the base in succeeding layers such that each layer of the spray applied material is polymerized by a light source ~~mounted on the spray device~~, the material includes a wax like substance having a viscosity such that a run off of the just applied spray drops used for the layer building is prevented while, on the other hand, the viscosity value is so small that it is possible to perform a penetration of the spray jet therein into in a favorable manner; and

hardening at least one already applied layer prior to the application of subsequent layers to form the dental restorative part; and wherein the material which is spray applied is a polymerizable wax-like dental material having up to 70% by weight of at least one of a polymerizable monomer and oligomer, from 0.01 to 10% by weight of a polymerization initiator, and at least 20% by weight of a mixture having a selected one of wax-like and a flowable monomer and a color pigment, and the dental material has the property that one of its physical condition and its viscosity changes within a relatively small range of temperature flux.

6 - 8. (cancelled)

Appl. No. 10/071,143

9. (currently amended) A method for producing a synthetic dental restorative part such as a full or partial dental prosthesis, comprising:

providing a base;

spray applying with a spray device a material having at least a polymerizable synthetic material onto the base in succeeding layers such that each layer of the spray applied material is polymerized by a light source ~~mounted on the spray device~~, the material includes a wax like substance having a viscosity such that a run off of the just applied spray drops used for the layer building is prevented while, on the other hand, the viscosity value is so small that it is possible to perform a penetration of the spray jet ~~thereinto~~ in a favorable manner, wherein the spray applied material is a selected one of a material having a wax-like polymerizable substance having an ester of a carbon acid and a polymerizable alcohol and a material having an ester of an alcohol and a polymerizable carbon acid derivative of between about 20% to 99.99% by weight of the material; and

hardening at least one already applied layer prior to the application of subsequent layers to form the dental restorative part wherein each layer is polymerized prior to the application thereonto of the next layer to a polymerized condition which is less than complete polymerization yet is such that the layer supports the retention of the next layer applied thereon.

10 - 14. (cancelled)

15. (currently amended) A method for producing a synthetic dental restorative part such as a full or partial dental prosthesis, comprising:

providing a base;

spray applying with a spray device a material having at least a polymerizable synthetic material onto the base in succeeding layers such that each layer of the spray applied material is polymerized by a light source ~~mounted on the spray device~~, the material includes a wax like substance having a viscosity such that a run off of the just applied spray drops used for the layer building is prevented while, on the other hand, the viscosity value is so

Appl. No. 10/071,143

small that it is possible to perform a penetration of the spray jet thereinto in a favorable manner; and

hardening at least one already applied layer prior to the application of subsequent layers to form the dental restorative part; and wherein the material which is spray applied is a polymerizable wax-like dental material having up to 70% by weight of at least one of a polymerizable monomer and oligomer, from 0.01 to 10% by weight of a polymerization initiator, and at least 20% by weight of a mixture having a selected one of wax-like and a flowable monomer and a color pigment, and the dental material has the property that one of its physical condition and its viscosity changes within a relatively small range of temperature flux, wherein the polymerization initiator is between 0.5 to 5% by weight of the wax-like dental material.

16. (previously presented) A method for producing a synthetic dental restorative part according to claim 15, wherein the polymerization initiator is between 0.5 to 2% by weight of the wax-like dental material.

17 - 18. (cancelled)